

```
1 using
5
6 namespace NeuralLibrary
7 {
8     public class Network
9     {
10         #region Constructors
11
12
16         public Network(bool RPROP = false, params int[] layers)
17             : this(layers, GenerateSigmoids(layers), RPROP)
20
21
26         public Network(int[] layers, Sigmoid[] activations, bool RPROP = false)
88
89         #endregion Constructors
90
91
99         public double Train(double[] input, double[] desired, double learningRate, double momentum)
108
109
191
192         #region Network Functions
193
196         public void NudgeWeights()
202
203
207         public void FeedForward(double[] inputs)
242
243
247         public void BackPropagate(double[] desired)
277
278
281         public void UpdateWeights(double learningRate, double momentum)
288
289
294         private static Sigmoid[] GenerateSigmoids(int[] layers)
307
308         #endregion Network Functions
309
310
326
327
400     }
401 }
```